

Amendments to the Claims

Please amend claims 1, 3 and 17-19 as shown in the following list of claims. This listing of claims will replace all prior versions, and listings, of claims in the application.

- 1 1. (currently amended) An optical-signal computer mouse, comprising:
2 an optical imaging array sensor operable to capture images of a
3 target surface, the optical imaging array sensor being further operable to receive an
4 optical signal from an optical-signal emitter communicatively coupled to an
5 electronic system, the optical signal specifying an operational characteristic setting
6 of the computer mouse, the optical-signal emitter being external to the computer
7 mouse; and
8 a processor operable to calculate a vector value that represents a
9 movement of the computer mouse using the images captured by the optical imaging
10 array during a cursor controlling operation, the processor being further operable to
11 implement ~~a performance characteristic value~~ the operational characteristic setting
12 specified by the optical signal received by the optical imaging sensor array to
13 program the operational characteristic setting of the computer mouse using the
14 received optical signal during programming of characteristic settings of the
15 computer mouse.
- 1 2. (previously presented) The computer mouse of claim 1, further comprising
2 a transmitter operable to communicate a state signal identifying a state of the
3 computer mouse to the electronic system.
- 1 3. (currently amended) A system, comprising:
2 an optical-signal generator;
3 an optical-signal emitter coupled to the generator; and
4 an optical-signal computer mouse having an original operational
5 characteristic setting ~~a performance characteristic set to a first value~~, the computer
6 mouse including an optical imaging array sensor to receive from the emitter an
7 optical signal that specifies an operational characteristic setting of the computer

8 mouse and to capture images of a target surface, the optical-signal emitter being
9 external to the computer mouse, the computer mouse further including a processor
10 operable to calculate a vector value that represents a movement of the computer
11 mouse using the images captured by the optical imaging array during a cursor
12 controlling operation, the processor being further operable to set the computer
13 mouse to the operational characteristic setting specified in the optical signal ~~the~~
14 ~~performance characteristic to a second value in response to the optical signal~~
15 received by the optical imaging sensor array to program the operational
16 characteristic setting of the computer mouse using the received optical signal
17 during programming of characteristic settings of the computer mouse.

1 4. (original) The system of claim 3, wherein the generator comprises a
2 computer system.

1 5. (previously presented) The system of claim 3, wherein the emitter
2 comprises a video-display monitor configured to display said optical signal to be
3 received by the optical imaging array sensor of the optical-signal computer mouse
4 to set the performance characteristic to the second value in response to the optical
5 signal.

1 6. (previously presented) The system of claim 3 wherein the computer mouse
2 is operable to generate a state signal identifying a state of the computer mouse.

1 7. (previously presented) The system of claim 6 wherein the computer mouse
2 is further operable to communicate the state signal to the generator.

1 8. (previously presented) The system of claim 6, wherein the emitter
2 comprises a state-signal receiver operable to receive the state signal from the
3 optical-signal computer mouse and provide the state signal to the generator.

1 9. (previously presented) The system of claim 3, wherein the computer mouse
2 is a wireless optical mouse.

1 10. (original) The system of claim 3, wherein a performance associated with the
2 characteristic is displayable by the generator.

1 11. (original) The system of claim 3, wherein the performance characteristic
2 comprises a frame rate.

1 12. (original) The system of claim 3, wherein the performance characteristic
2 comprises an inactivity-period threshold.

1 13. (original) The system of claim 6, wherein the state comprises velocity
2 relative to a surface.

1 14. (original) The system of claim 6, wherein:
2 the state signal comprises a characteristic having first and second
3 values; and
4 the first and second state-signal characteristic values respectively
5 correspond to the first and second performance-characteristic values.

1 15. (original) The system of claim 3, wherein the optical signal specifies the
2 second value.

1 16. (original) The system of claim 6, wherein the state signal specifies the
2 second value.

1 17. (currently amended) A system, comprising:
2 an optical-signal emitter operable to be coupled to an electronic
3 system; and
4 an optical-signal computer mouse having an original operational
5 characteristic setting ~~a performance characteristic set to a first value~~, the computer
6 mouse including an optical imaging array sensor to receive from the emitter an
7 optical signal that specifies an operational characteristic setting of the computer
8 mouse and to capture images of a target surface, the emitter being external to the
9 computer mouse, the computer mouse further including a processor operable to

10 calculate a vector value that represents a movement of the computer mouse using
11 the images captured by the optical imaging array during a cursor controlling
12 operation, the processor being further operable to set the computer mouse to the
13 operational characteristic setting specified in the optical signal ~~the performancee~~
14 ~~characteristic to a second value in response to the optical signal~~ received by the
15 optical imaging sensor array to program the operational characteristic setting of the
16 computer mouse using the received optical signal during programming of
17 characteristic settings of the computer mouse.

1 18. (currently amended) A method of programming an optical-signal computer
2 mouse, comprising:

3 generating an optical signal to be received by an optical imaging
4 array sensor of the optical-signal computer mouse from an optical-signal emitter,
5 the optical-signal emitter being external to the computer mouse, the computer
6 mouse having an original operational characteristic setting ~~a performancee~~
7 ~~characteristic set to a first value~~, the optical signal operable to set the computer
8 mouse to the operational characteristic setting ~~the performancee characteristic to a~~
9 ~~second value~~, the optical imaging array sensor being operable to also capture
10 images of a target surface to calculate a vector value to determine a movement of
11 the computer mouse; and

12 displaying the optical signal on a video-display monitor of the
13 optical-signal emitter to be received by the optical imaging array sensor of the
14 optical-signal computer mouse to set the computer mouse to the operational
15 characteristic setting specified in the optical signal to program the operational
16 characteristic setting of the computer mouse using the received optical signal ~~the~~
17 ~~performancee characteristic to the second value in response to the optical signal~~.

1 19. (currently amended) A method implemented by a computer mouse having
2 an original operational characteristic setting ~~a performancee characteristic set to a~~
3 ~~first value~~, comprising:

4 communicating a state signal identifying a state of the computer
5 mouse to an electronic system;

6 receiving an optical signal from an emitter communicatively

7 coupled to the electronic system at an optical imaging array sensor of the computer
8 mouse, the optical signal specifying an operational characteristic setting of the
9 computer mouse, the optical-signal emitter being external to the computer mouse,
10 the optical signal operable to set the computer mouse to the operational
11 characteristic setting specified in the optical signal to program the operational
12 characteristic setting of the computer mouse using the received optical signal ~~the~~
13 ~~performance characteristic to a second value;~~
14 capturing images of a target surface at the optical imaging array
15 sensor; and
16 calculating a vector value that represents a movement of the
17 computer mouse using the images captured by the optical imaging array.